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**BIBLIOGRAPHY**

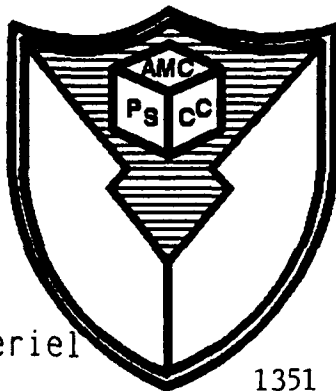
**SUPPLEMENT NO. 14**

**DECEMBER 1991**

**PACKAGING, STORAGE, AND  
CONTAINERIZATION CENTER**

**REPORTS AND INFORMATION**

**PREPARED BY:**



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**JAN 23 1992**  
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**PACKAGING, STORAGE, AND  
CONTAINERIZATION CENTER**  
**TOBYHANNA, PENNSYLVANIA 18466-5097**

**92-00718**



## FOREWORD

In January 1978, a bibliography was published listing, by month, all projects and assignments completed by the Center from July 1974 through June 1977. Since then, supplements 1 through 13 have been published listing all projects and assignments completed from July 1977 through September 1990.

This supplement (No. 14) incorporates all projects and assignments completed from October 1990 through September 1991.

This supplement should be filed with the bibliography dated January 1978 and supplements 1 through 13. Supplements will be published annually.

Copies of completed reports mentioned in this bibliography may be obtained from the Project Control Officer, Management Support Office, SDSTO-TM, DSN 795-6623.

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 Packaging Storage, and Containerization  
 Center/ATTN: SDSTO-TM Tobyhanna, PA  
 18466-5097  
 NWW 1/22/92

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SUBJECT:  PROCESS ACTION TEAM SUPPORT - SETS, KITS, AND OUTFITS

PROJECT:  AMC 4-91

ABSTRACT:

      This project provides the results of a management study to determine whether the sets, kits, and outfits (SKO) assembly missions should be performed at centralized locations. The project was in response to a request from the Commanding General, AMC. HQ DESCOM coordinated the study. A process action team (PAT) was organized to support this effort. The AMC Management Engineering Activity directed the PAT. Representatives from AMCPSCC and functional representatives from the major subordinate commands (MSC) and depots/arsenals assisted this team. The study addressed the current procedures/processes by which set assemblies/disassemblies, to include SKOs, are programmed, planned, and directed at each depot/arsenal by the commodity MSCs under AMC. The study included on-site reviews at the SKO activities and MSCs and a data call to verify storage space support for the SKO mission. The results of the on-site visits were separately developed and staffed to the SKO activities/MSCs. The final report was approved by HQ DESCOM.

SUBJECT:  STORAGE SPACE MANAGEMENT REPORT CONCEPT PLAN

PROJECT:  AMC 7-91

Jun 1991

ABSTRACT:

      The purpose of this project was to develop, for DOD, a paperless concept for storage space reporting. The concept envisions the warehouse worker storing materiel to an assigned location using technology which provides for automated storage space data collection, and executive agent access to the storage space data on a real-time basis. This paperless concept for storage space reporting will be turned over to the Corporate Information Management group by DOD for potential inclusion in what will be the future's standard system for supply management in DOD. The request for this project was received by HQ DA from DOD and forwarded to HQ AMC. HQ AMC assigned the task of developing the concept plan to AMCPSCC. The concept plan was developed by AMCPSCC and presented to HQ AMC during May 1991. The concept plan has since been forwarded to HQ DA for submission to DOD.

SUBJECT: PACKAGING STANDARDIZATION DOCUMENT PROGRAM PLAN (PACK AREA)

PROJECT: PACK 0953

Aug 1991

ABSTRACT:

This project revised the PACK Area Standardization Program Plan, resulting in Revision 6 of the plan. The updated plan provides a current list of documents in the PACK area, a schedule for accomplishing planned updating actions (revision, validation, amendment, or cancellation) and statements of the current state of the PACK Area. The plan attempts to eliminate documents that are obsolete or redundant and add new documents to the area.

SUBJECT: ENGINEERING PRACTICES STUDY - CONVERSION, CONSOLIDATION, AND/OR CANCELLATION OF FEDERAL/MILITARY SPECIFICATIONS

PROJECT: PACK 0959

May 1991

ABSTRACT:

From mid-1986 until December 1988, a DOD Military Packaging Simplification Study (MPSS) sponsored by the Joint Packaging Coordinating Group (JPCG) was conducted to identify ways to simplify the policies and procedures within DOD's packaging discipline. As a result of the MPSS, a number of Federal and military specifications were identified as having potential for one or more of the following: complete conversion to special packaging instruction (SPI) format, conversion of "Packaging of" specifications and conversion of section 5 of various commodity specifications to coded data or SPI format, conversion of Federal and military specifications to industry standards, combination/consolidation of Federal and military specifications that are similar in nature, or the complete cancellation of outdated, outmoded Federal and military specifications. This engineering practices study involved extensive coordinating and negotiating with various standardization management activities to determine the feasibility of and methodology for accomplishing the document conversions, consolidations, and/or cancellations recommended by the MPSS and endorsed by the Office of the Assistant Secretary of Defense.

SUBJECT: ENGINEERING PRACTICES STUDY - RECYCLING AND REUTILIZATION  
OF PACKAGING MATERIALS

PROJECT: PACK 0960

Sep 1991

ABSTRACT:

Packaging materials are becoming increasingly significant candidates for waste reduction targets in Federal and state agencies and in private industry. This fact, coupled with the growing movement toward recycling and reutilization and the problems associated with landfill disposal, prompted this study. The overall objective of the study was to determine the extent to which packaging materials commonly used by DOD are currently recycled and/or reutilized. The study also examined the waste disposal techniques currently utilized at the end of the materials' useful life, and plans for future actions in this area. The study results in a consolidated overview of current and planned DOD practice and provides basic data for formulating future policy regarding efficient use of packaging materials.

SUBJECT: AMCCOM AUDITS

PROJECT: TD 17-89

Jan 1991

ABSTRACT:

The purpose of this assignment was to improve ammunition storage space visibility and storage space management report (SSMR) accuracy for the U.S. Army Armament, Munitions, and Chemical Command (AMCCOM) through evaluation of storage facilities, examination of feeder data, and reconciliation of reported data. To accomplish these objectives, on-site storage space audits were conducted at 20 AMC ammunition storage installations. The audits resulted in storage space reporting problems being identified at all the installations visited. The consolidated audit results identify decreases in gross space, unusable space, standby space, outgranted space, and space for storage operations. However, net space, occupied space, and vacant space figures increased. In addition, systemic problems were identified. Some of the problems encountered included: the standard depot system ammunition location system (planographs) limits reported occupancy to 65 percent of gross space; ammunition storage grid sized are not uniform; and guidance for gross space computations contained in DOD 5160.65-M and SIMA FOI 18-740-25 conflict with AR 740-1 guidance. The audit also resulted in AMCPSCC recommending that the ammunition net to gross goal of 65:35 be increased to 80:20.

SUBJECT: LOGISTICS SUPPORT ACTIVITY ACTIVATION

PROJECT: TD 88-89

Sep 1991

ABSTRACT:

Functional support was provided to HQ AMC by personnel of AMCPSCC. The request for assistance was initiated by the AMC Logistic Support Activity (LOGSA) project officer in a message dated 22 June 1989.

Functional support was provided to accomplish:

- a. Preparation of the AMC request for approval of the Organization Change Proposal (OCP) to Establish the AMC LOGSA.
- b. Day-to-day management of LOGSA.
- c. Development of integrated LOGSA budget.
- d. Development of alternative LOGSA organizational structures.
- e. Development of mock LOGSA tables of distribution and allowances based on preferred alternative.
- f. Development of job descriptions for LOGSA HQ positions.
- g. Support requirements to assist LOGSA separate reporting activities (SRA).
- h. Support requirements to assist HQ AMC.
- i. Development of an AMC response to DA comments on the AMC request for approval of the OCP to establish LOGSA.

Although considerable efforts were made to finalize documents required for formal LOGSA approval, AMC planning documents addressing the future briefed to HQ DA, the LOGSA initiative is put on hold. LOGSA HQ support personnel were used primarily for planning purposes, internal management, and the Deputy Chief of Staff for Supply, Maintenance, and Transportation support, as required. As of the completion of this report, LOGSA is still a provisional organization requiring functional support from component SRAs. Nonetheless, function support was accomplished as requested.

SUBJECT: METHOD IC VS. IA, LONG-TERM PROTECTION TEST AND ANALYSIS

PROJECT: TE-LS-94-89

Feb 1991

ABSTRACT:

Long-term protection studies were conducted on MIL-B-131 barrier material used in method IA unit packs and MIL-B-121 barrier material used in method IC unit packs. MIL-B-22019 barrier material was also evaluated for use in either method IA or method IC unit packs. MIL-B-22191 barrier material was originally considered as well but could not be obtained through General Services Administration (GSA). Studies were performed to determine the strength properties and rough handling characteristics of each barrier material, in addition to their water-vapor intrusion resistance, the goal being to determine a possible policy change in existing a packaging methods. It was confirmed, from the above studies, that MIL-B-131 barrier material and method IA offered the best long-term protection for unit packs.

SUBJECT: EVALUATION OF THE U.S. ARMY PUBLICATIONS DISTRIBUTION  
CENTER, ST. LOUIS, MO, MODERNIZATION STUDY

PROJECT: TD 25-90

Jun 1991

ABSTRACT:

This assignment was established at the request of the U.S. Army Information Systems Command (USAISC). It provides an evaluation on the commercial study developed for the modernization of warehouse operations at the U.S. Army Publications Distribution Center (USAPDC), St. Louis, MO. The purpose of this request was to support USAPDC in the evaluation and review of this commercial study and provide materials handling equipment (MHE) enhancements as required. The evaluation concluded that improvements to USAPDC's warehouse operations were technically feasible. Overall efficiencies will increase through the use of MHE and the installation of a package manifest system. This report includes warehouse layouts, budget estimates, sources of supply, and recommendations for improving warehouse operations. Purchase descriptions for MHE required to implement this warehouse modernization will be furnished separately by AMCPSCC upon project funding.

SUBJECT: CROSS-REFERENCE AMERICAN SOCIETY FOR TESTING AND  
MATERIALS DOCUMENTS TO CANCELED/SUPERSEDED GOVERNMENT  
SPECIFICATIONS

PROJECT: TE 39-90

Oct 1990

ABSTRACT:

It is Department of Defense (DOD) policy to participate in the development of non-Government standards and to use them whenever it is feasible, practical, and economical. The American Society for Testing and Materials (ASTM) is one of the major producers of non-Government standards accepted and used by the Government. In an effort to identify those ASTM documents which have been adopted and are available from the Naval Publications and Forms Center at no cost to Defense activities, this listing has been developed. Recipients of this report are invited to report any future changes, additions, or deletions to this Center, ATTN: SDSTO-TE-S.

SUBJECT: MODERNIZATION PLANNING ASSISTANCE FOR ROCK ISLAND  
ARSENAL, IL

PROJECT: TD 40-90

Jan 1991

ABSTRACT:

Modernization planning assistance was provided to the Directorate of Logistics Support (DLS), Rock Island Arsenal (RIA), IL, by personnel of AMCPSCC. This request was initiated by DLS, RIA. The purpose of this request was to develop a long-range (5-yr) modernization plan for DLS and design a layout of their primary warehouse to improve operational effectiveness. AMCPSCC accomplished this request by compiling equipment/facility requirements for a DLS modernization plan and designing a layout to improve material flow. The modernization plan and layout will be valuable tools to implement their future modernization requirements. Purchase descriptions and sources of supply for the equipment required to implement this 5-year modernization plan were furnished separately by AMCPSCC.

SUBJECT: REVIEW OF STORAGE OPTIONS FOR REUSABLE CONTAINERS

PROJECT: TP 56-90

Oct 1990

ABSTRACT:

This assignment was developed to assess the condition of reusable metal containers (RMC) and to review reusable container storage practices. It was initiated based upon reports that corrosion/deterioration of certain reusable containers stored outside was widespread due to lid designs that preclude water drainage. This assignment found that corrosion/deterioration problems were reported by 20 percent of survey respondents storing RMCs. Minor surface rust was the most frequent problem reported. No activity reported failure of a RMC due to corrosion/deterioration. This assignment recommends that empty drum-type RMCs be stored horizontally (on sides) and stacked, in accordance with guidance provided for drummed petroleum, oils, and lubricants. Palletized RMCs stored outside should be covered to prevent recessed lids from retaining water.

SUBJECT: CALIFORNIA AVIATION CLASSIFICATION REPAIR ACTIVITY DEPOT  
MODERNIZATION

PROJECT: TD 57-90

Jan 1991

ABSTRACT:

This assignment was established at the request of Headquarters (HQ), Mobilization Aviation Classification Repair Activity Depot (AVCRAD) Control Element (MACE). It provides a storage master plan for the mobilization mission of the California AVCRAD. This report includes a storage plan, operations layout, personnel requirements, bill of materials/budgetary cost estimate, and sources of supply for equipment. A preservation and packaging guide concerning the mobilization workload has been furnished separately.

SUBJECT: U.S. ARMY MISSILE COMMAND AMMUNITION STORAGE SPACE AUDIT

PROJECT: TD 58-90

Jan 1991

ABSTRACT:

This assignment was requested by HQ AMC. The purpose was to improve ammunition storage space visibility and DD Form 805 accuracy for MICOM through evaluation of storage facilities, examination of feeder data, and reconciliation of reported data. To accomplish these objectives, an on-site storage space audit was conducted at the Redstone Arsenal Support Activity (RASA), MICOM, ammunition storage installation. The audit revealed that RASA has not reported storage space data for DD Form 805 since 1986. In addition, many of the RASA storage facilities did not have planographs, igloo storage space was converted without obtaining the proper authorization, and the Inventory of Real Military Property Listing required adjustment. The audit resulted in approximately 300,000 square feet of vacant ammunition storage space being identified. Also, the audit team developed a feeder data collection system, instructed RASA personnel in its implementation, and provided guidance for report preparation.

SUBJECT: UNITED NATIONS RECOMMENDED PERFORMANCE TESTING OF  
HAZARDOUS MATERIALS PACKAGINGS FOR THE U.S. ARMY  
CHEMICAL RESEARCH, DEVELOPMENT, AND ENGINEERING CENTER -  
CHEMICAL KITS

PROJECT: TE 68-90

Oct 1990

ABSTRACT:

With the 1 January 1991 change in the regulations pertaining to the international transportation of hazardous materials (HAZMAT), it was necessary for DOD activities to obtain the performance testing for the packaging configurations for which they were responsible. The purpose of this assignment was to provide that performance testing and test documentation, as requested by CRDEC, for packagings of several chemical kits and decontaminating agent DS2. Chapter 9 of the UN Recommendations on the Transport of Dangerous Goods, known as the Orange Book, served as the reference document prescribing which tests were to be performed for the packagings and/or the hazardous commodities. Testing procedures were prescribed by ASTM D 4919, in accordance with procedures outlined in appendix F of AMC Packaging, Storage, and Containerization Center (AMCPSCC) project report AMC 13-88. Test results were documented using the designated report format that had been adopted for this specific testing program.



SUBJECT: MISSISSIPPI AVIATION CLASSIFICATION REPAIR ACTIVITY  
DEPOT MODERNIZATION

PROJECT: TD 69-90

Feb 1991

ABSTRACT:

This assignment was established at the request of HQ MACE. It provides a storage master plan for the mobilization mission of the Mississippi AVCRAD. This report includes a storage plan, operations layout, personnel requirements, bill of materials/budgetary cost estimate, and sources of supply for equipment. A preservation and packaging guide concerning the mobilization workload has been furnished separately.

SUBJECT: UNITED NATIONS RECOMMENDED PERFORMANCE TESTING OF  
HAZARDOUS MATERIALS PACKAGINGS - COMMON USE FIBERBOARD  
BOXES

PROJECT: TE 71-90

Oct 1990

ABSTRACT:

With the 1 January 1991 change in the regulations pertaining to the international transportation of HAZMAT, it was necessary for DOD activities to obtain the performance testing for the packaging configurations for which they were responsible. The purpose of this assignment was to provide that performance testing and test documentation, as initiated by AMCPSCC, for generic combination packagings of glass and plastic bottles. Chapter 9 of the UN Recommendations on the Transport of Dangerous Goods, known as the Orange Book, served as the reference document prescribing which tests were to be performed for the packagings and/or the hazardous commodities. Testing procedures were prescribed by ASTM D 4919, in accordance with procedures outlined in appendix F of AMCPSCC project report AMC 13-88. Test results were documented using the designated report format that had been adopted for this specific testing program.

SUBJECT: UNITED NATIONS RECOMMENDED PERFORMANCE TESTING OF  
HAZARDOUS MATERIALS PACKAGINGS FOR THE U.S. ARMY  
MISSILE COMMAND - MISSILE COMPONENTS

PROJECT: TE 72-90

Dec 1990

ABSTRACT:

With the 1 January 1991 change in the regulations pertaining to the international transportation of HAZMAT, it was necessary for DOD activities to obtain the performance testing for the packaging configurations for which they were responsible. The purpose of this assignment was to provide that performance testing and test documentation, as requested by MICOM, for the packaging of an igniter and a fuze, each in a PPP-B-621 wood box. Chapter 9 of the UN Recommendations on the Transport of Dangerous Goods, known as the Orange Book, served as the reference document prescribing which tests were to be performed for the packagings and/or the hazardous commodities. Testing procedures were prescribed by ASTM D 4919, in accordance with procedures outlined in appendix F of AMCPSCC project report AMC 13-88. Test results were documented using the designated report format that had been adopted for this specific testing program.

SUBJECT: UNITED NATIONS RECOMMENDED PERFORMANCE TESTING OF  
HAZARDOUS MATERIALS PACKAGINGS FOR THE U.S. ARMY  
MISSILE COMMAND - STINGER, REDEYE, AND SHILLELAGH  
MISSILE CONTAINERS

PROJECT: TE 73-90

Oct 1990

ABSTRACT:

With the 1 January 1991 change in the regulations pertaining to the international transportation of HAZMAT, it was necessary for DOD activities to obtain the performance testing for the packaging configurations for which they were responsible. The purpose of this assignment was to provide that performance testing and test documentation, as requested by U.S. Army Missile Command (MICOM), for packagings of the Stinger, Redeye, and Shillelagh missiles. Chapter 9 of the UN Recommendations on the Transport of Dangerous Goods, known as the Orange Book, served as the reference document prescribing which tests were to be performed for the packagings and/or the hazardous commodities. Testing procedures were prescribed by ASTM D 4919, in accordance with procedures outlined in appendix F of AMCPSCC project report AMC 13-88. Test results were documented using the designated report format that had been adopted for this specific testing program.

SUBJECT: UNITED NATIONS RECOMMENDED PERFORMANCE TESTING OF  
HAZARDOUS MATERIALS PACKAGINGS FOR THE U.S. ARMY  
MISSILE COMMAND - COMMON USE WOOD BOXES FOR SOLID  
ITEMS

PROJECT: TE 75-90

Oct 1990

ABSTRACT:

With the 1 January 1991 change in the regulations pertaining to the international transportation of HAZMAT, it was necessary for DOD activities to obtain the performance testing for the packaging configurations for which they were responsible. The purpose of this assignment was to provide that performance testing and test documentation, as requested by MICOM for the packaging of unidentified solid items in PPP-B-601 wood boxes. Chapter 9 of the UN Recommendations on the Transport of Dangerous Goods, known as the Orange Book, served as the reference document prescribing which tests were to be performed for the packaging and/or the hazardous commodities. Testing procedures were prescribed by ASTM D 4919, in accordance with procedures outlined in appendix F of AMCPSCC project report AMC 13-88. Test results were documented using the designated report format that had been adopted for this specific testing program.

SUBJECT: UNITED NATIONS RECOMMENDED PERFORMANCE TESTING OF  
HAZARDOUS MATERIALS PACKAGINGS FOR THE DEFENSE LOGISTICS  
AGENCY - COMMON USE PACKAGINGS

PROJECT: TE 78-90

Dec 1990

ABSTRACT:

With the 1 January 1991 change in the regulations pertaining to the international transportation of HAZMAT, it was necessary for DOD activities to obtain the performance testing for the packaging configurations for which they were responsible. The purpose of this assignment was to provide that performance testing and test documentation, as requested by the Defense Logistics Agency (DLA) Central Manager for Hazardous Materials. The configurations included single as well as combination packagings. This assignment, the first in a series of assignments covering the testing requested by DLA, was limited to the testing of drums, wood boxes, and expanded polystyrene boxes. Chapter 9 of the UN Recommendations on the Transport of Dangerous Goods, known as the Orange Book, served as the reference document prescribing which tests were to be performed for the packagings and/or the hazardous commodities. Testing procedures were prescribed by ASTM D 4919, in accordance with procedures outlined in appendix F of AMCPSCC project report AMC 13-88. Test results were documented using the designated report format that had been adopted for this specific testing program.

SUBJECT: CONSOLIDATION OF DEPARTMENT OF DEFENSE STORAGE SPACE  
MANAGEMENT REPORTS - 30 JUN 90

PROJECT: TD 82-90

Nov 1990

ABSTRACT:

This assignment was established to prepare a consolidated storage space utilization and occupancy report for the reporting period ending 30 June 1990. The report includes installations reporting one million or more square feet of storage space. Additionally, specific installations were selected because of their importance. The report provides current visibility of DOD storage space.

SUBJECT: UNITED NATIONS RECOMMENDED PERFORMANCE TESTING OF  
HAZARDOUS MATERIALS PACKAGINGS FOR THE DEFENSE LOGISTICS  
AGENCY - COMMON USE FIBERBOARD BOXES

PROJECT: TE 83-90

Mar 1991

ABSTRACT:

With the 1 January 1991 change in the regulations pertaining to the international transportation of HAZMAT, it was necessary for DOD activities to obtain the performance testing for the packaging configurations for which they were responsible. The purpose of this assignment was to provide that performance testing and test documentation, as requested by the DLA Central Manager for Hazardous Materials. This project, the second in a series of projects covering the testing requested by DLA, was limited to combination packagings using fiberboard boxes. Chapter 9 of the UN Recommendations on the Transport of Dangerous Goods, known as the Orange Book, served as the reference document prescribing which tests were to be performed for the packagings and/or the hazardous commodities. Testing procedures were prescribed by ASTM D 4919, in accordance with procedures outlined in appendix F of AMCPSCC project report AMC 13-88. Test results were documented using the designated report format that had been adopted for this specific testing program.

SUBJECT: PALLET STORAGE RACK EVALUATION

PROJECT: TD 84-90

Dec 1990

ABSTRACT:

This assignment evaluated and tested pallet storage rack components for load capacity, deflection, and compression. The components were tested at the Defense Depot Mechanicsburg (DDMP), Mechanicsburg, PA, and at the AMCPSCC laboratory. It was concluded that the contractor-supplied pallet rack components met the MIL-R-61001 criteria for load capacity and maximum deflection and that the test results could be used by DDMP contracting. Also, it was determined that the test plan and procedures developed to complete this assignment can be used for evaluation of other pallet storage rack components/systems.

SUBJECT: REVIEW OF TESTING REQUIREMENTS IN MIL-STD-1190

PROJECT: TP 85-90

Nov 1990

ABSTRACT:

This assignment was initiated to investigate reports from industry and the military claiming testing requirements for Level C in accordance with MIL-STD-1190, Minimum Guidelines for Level C Preservation, Packaging, and Marking, are too stringent. As preparing activity for MIL-STD-1190, the quality assurance provisions were reviewed and reevaluated for revision or possible deletion. It was concluded that testing requirements for Level C are essential and policy changes are required to reduce the severity of the quality requirements to reflect more realistic testing for minimum military protection.

SUBJECT: PACKAGING DEVIATION/ARMY IDEAS FOR EXCELLENCE PROGRAMS  
BOOKLET

PROJECT: TP 2-91

Apr 1991

ABSTRACT:

This assignment was established by AMCPSCC to provide depot personnel the necessary instructions to prepare either a packaging deviation or a suggestion.

SUBJECT: REVIEW OF TM 743-200-1, STORAGE AND MATERIALS HANDLING

PROJECT: TP 4-91

Jan 1991

ABSTRACT:

This assignment accomplished a thorough review of TM 743-200-1, Storage and Materials Handling, to identify needed changes to illustrations, tables, and text. These recommended changes will bring this manual more in-line with DA's current mode of storage and materials handling practices.

SUBJECT: CONTESTED/UNRESOLVED REPORTS OF DISCREPANCY PROGRAM  
PROCEDURES

PROJECT: TP 5-91

Jun 1991

ABSTRACT:

This assignment was undertaken to implement new methods and controls in the management of the contested and unresolved RODs program at AMCPSCC. Although all ICPs are not responding to RODs within the required 60 days, an overall improvement was noted in their processing timeframes and in the decline in the number of aged unresolved RODs. AMCPSCC will continue to initiate follow-up requests to ICPs and to refer aged RODs to HQ AMC and HQ DLA. The development of reports from the database has resulted in a more efficient operation of the program. AMCPSCC will continue to evaluate the potential of the database and maximize its utilization.

SUBJECT: UNITED NATIONS RECOMMENDED PERFORMANCE TESTING OF  
HAZARDOUS MATERIALS PACKAGINGS FOR THE U.S. ARMY  
TANK-AUTOMOTIVE COMMAND - SELECT ITEMS

PROJECT: TE 6-91

Nov 1990

ABSTRACT:

With the 1 January 1991 change in the regulations pertaining to the international transportation of HAZMAT, it was necessary for DOD activities to obtain the performance testing for the packaging configurations for which they were responsible. The purpose of this assignment was to provide that performance testing and test documentation, as requested by the U.S. Army Tank Automotive Command (TACOM). The fiberboard combination packagings, packed by TACOM, were built to special packaging instructions. Chapter 9 of the UN Recommendations on the Transport of Dangerous Goods, known as the Orange Book, served as the reference document prescribing which tests were to be performed for the packagings and/or the hazardous commodities. Testing procedures were prescribed by ASTM D 4919, in accordance with procedures outlined in appendix F of AMCPSCC project report AMC 13-88. Test results were documented using the designated report format that had been adopted for this specific testing program.

SUBJECT: PERFORMANCE ORIENTED PACKAGING CONTAINER DATABASE FILE

PROJECT: TT 7-91

Dec 1990

ABSTRACT:

This assignment was established to develop a database file of performance oriented packaging (POP) tested containers. The database was developed using Dbase III, and is searchable on all fields. The data fields include national stock numbers of the tested container; UN container codes; inner-container type and quantity; test report number; special packaging instruction number, if available; and pass/fail information.

SUBJECT: UNITED NATIONS RECOMMENDED PERFORMANCE TESTING OF  
HAZARDOUS MATERIALS PACKAGINGS FOR THE U.S. ARMY MISSILE  
COMMAND - DRAGON, CHAPARRAL, TOW, AND OTHER MISSILE  
CONTAINERS

PROJECT: TE 8-91

Feb 1991

ABSTRACT:

With the 1 January 1991 change in the regulations pertaining to the international transportation of HAZMAT, it was necessary for DOD activities to obtain the performance testing for the packaging configurations for which they were responsible. The purpose of this assignment was to provide that performance testing and test documentation, as requested by MICOM, for packagings of the Dragon, Chaparral, Tow, and Hawk missiles or motors, the TARGETS rocket motor assembly, and a separation ring assembly. Chapter 9 of the UN Recommendations on the Transport of Dangerous Goods, known as the Orange Book, served as the reference document prescribing which tests were to be performed for the packagings and/or the hazardous commodities. Testing procedures were prescribed by ASTM D 4919, in accordance with procedures outlined in appendix F of AMCPSCC project report AMC 13-88. Test results were documented using the designated report format that had been adopted for this specific testing program.

SUBJECT: UNITED NATIONS RECOMMENDED PERFORMANCE TESTING OF  
HAZARDOUS MATERIALS PACKAGINGS FOR THE U.S. ARMY  
CHEMICAL RESEARCH, DEVELOPMENT, AND ENGINEERING CENTER -  
CHEMICAL PACKAGINGS

PROJECT: TE 9-91

Dec 1990

ABSTRACT:

With the 1 January 1991 change in the regulations pertaining to the international transportation of HAZMAT, it was necessary for DOD activities to obtain the performance testing for the packaging configurations for which they were responsible. The purpose of this assignment was to provide that performance testing and test documentation, as requested by U.S. Army Chemical Research, Development, and Engineering Center (CRDEC), for packagings of the M13 decontaminating apparatus, the M20 breathing apparatus, a laboratory sample container, and 1 1/3-quart cans of decontaminating agent DS2. Chapter 9 of the UN Recommendations on the Transport of Dangerous Goods, known as the Orange Book, served as the reference document prescribing which tests were to be performed for the packagings and/or the hazardous commodities. Testing procedures were prescribed by ASTM D 4919, in accordance with procedures outlined in appendix F of AMCPSCC project report AMC 13-88. Test results were documented using the designated report format that had been adopted for this specific testing program.



SUBJECT: PACKAGING POINTS OF CONTACT BOOKLET

PROJECT: TP 10-91

Apr 1991

ABSTRACT:

This assignment was established by AMCPSCC to provide depot personnel a ready reference listing all packaging personnel within DOD. This updated booklet will afford depot personnel new or existing phone numbers, electronic mail (E-Mail) addresses, and attention symbols and addresses.

SUBJECT: POINTS ACROSS AMERICA PAMPHLET

PROJECT: TP 11-91

Mar 1991

ABSTRACT:

The initial Points Across America - Contacts for Reports of Discrepancy assignment was developed to provide a comprehensive listing of points-of-contact at Army activities including staff, inventory control points, and depot activities. Since the first publication, the directory has been updated periodically to ensure its accuracy. This assignment updated all listed information including personnel, phone numbers, and mailing addresses, approximately 75 percent of which changed since the August 1989 publication.

SUBJECT: DEPARTMENT OF DEFENSE STORAGE SPACE UTILIZATION AND OCCUPANCY REPORT, 30 JUNE 1990

PROJECT: TD 15-91

Dec 1990

ABSTRACT:

This assignment was established to prepare a consolidated report of DOD storage space utilization and occupancy for the period ending 30 June 1990. The report includes specific DOD installations which were selected because of their size or importance to DOD storage space management.

SUBJECT: AUTOMATED DECISION MATRIX FOR PERFORMANCE ORIENTED  
PACKAGING CONTAINERS

PROJECT: TT 17-91

Jul 1991

ABSTRACT:

This assignment was established to provide HAZMAT packers with a means to identify an appropriate POP certified container, when no packaging data applicable to their requirement exists. By answering yes/no questions and filling in certain data fields, packers will be led to an appropriate container. The matrix will be most applicable when the packer has to break a certified pack (e.g., twenty-four 1 qt-containers) to meet a requirement for a lesser quantity (e.g., eight 1-qt containers).

SUBJECT: STORAGE SPACE DATA ANALYSIS (U.S. ARMY TRAINING AND  
DOCTRINE COMMAND)

PROJECT: TD 18-91

Jan 1991

ABSTRACT:

The purpose of this assignment was to analyze DD Form 805 (Storage Space Management Report (SSMR)) data reported by U.S. Army Training and Doctrine Command (TRADOC) installations to identify significant changes in total space, trends in space utilization, and compliance with AR 740-1. The analysis included both covered and open storage space for the years 1984-90. The assignment concluded that storage space data reported by TRADOC installations appear questionable with respect to the reporting of covered and open space. A review of SSMRs revealed that some installations, required to submit an SSMR, failed to report. The review also indicated that some installations reported identical storage space data for at least two consecutive report periods. Additionally, some installations did not annotate the remarks section of the SSMRs when a significant change in space occurred.

SUBJECT: ARMY STORAGE SPACE MANAGEMENT REPORTS CONSOLIDATION,  
30 JUNE 1990

PROJECT: TD 20-91

Jan 1991

ABSTRACT:

This assignment was established to prepare a consolidated report of Department of the Army (DA) storage space utilization and occupancy for the period ending 30 June 1990. The report is a compilation and consolidation of DD Form 805 submitted by DA installations in the Continental United States and overseas.

SUBJECT: OPERATION DESERT SHIELD - PACKAGING LESSONS LEARNED  
(AUG - DEC 90)

PROJECT: TP 21-91

Mar 1991

ABSTRACT:

This assignment was initiated to document packaging related problems encountered during the initial deployment of equipment and supplies to support Operation Desert Shield. The packaging issues addressed include training, consolidation procedures, marking, levels of protection, and depot and troop installations capabilities. Each issue is addressed separately with recommendations provided when appropriate. The report is intended to be distributed to supply operations within the services and DLA.

SUBJECT: PACKAGING MATERIALS AND EQUIPMENT FOR TROOP INSTALLATIONS

PROJECT: TP 22-91

Apr 1991

ABSTRACT:

This assignment was developed to provide a list of packaging equipment and materials which could be used at troop installations to increase their capability to adequately protect retrograde materials returned to depots and rebuild facilities. This list will be maintained as a computer database and updated periodically. This report will assist troop installations and field-level personnel in maintaining the minimum required packaging equipment and materials.

SUBJECT: AMMUNITION OPERATIONS REVIEW - LETTERKENNY ARMY DEPOT

PROJECT: TD 23-91

Feb 1991

ABSTRACT:

This assignment provides the results of the ammunition operations review performed at Milan Army Ammunition Plant, Hawthorne Army Ammunition Plant, and Letterkenny Army Depot (LEAD) ammunition operations. The assistance support was in response to a request from the Command Group, AMCCOM. As a team member, the AMCPSCC representative reviewed current work measurement standards/systems for various operations including receipt, issue, care of supplies in storage, inventory, and storage. The review also included a data call at HQ, U.S. Army Depot System Command (DESCOM) to verify the Depot Cost and Performance (RCS AMCSM-305) Report. The results of the visits were separately summarized to identify potential cost avoidance areas and recommended actions. The results were presented at the Ammunition Logistics Management Initiatives Quality Management Board (QMB) Meeting and were included in the QMB concept of operations.

SUBJECT: COMPLIANCE REVIEW OF REPORT OF DISCREPANCY PROCESSING

PROJECT: TP 24-91

Apr 1991

ABSTRACT:

On-site reviews were conducted to document compliance with regulatory guidance for report of discrepancy (ROD) processing at the six AMC national inventory control points (NICP). It was observed that NICPs are generally in compliance, but that procedures for processing materiel return RODs were not clearly understood. These procedures were explained in detail, and suggestions of minor changes to local procedures were made to several NICPs to eliminate redundant research on total nonreceipt RODs and shorten response time to the customer.

SUBJECT: UNITED NATIONS RECOMMENDED PERFORMANCE TESTING OF  
HAZARDOUS MATERIALS PACKAGINGS FOR THE U.S. ARMY  
COMMUNICATIONS-ELECTRONICS COMMAND - BATTERY PACKAGINGS

PROJECT: TE 26-91

Mar 1991

ABSTRACT:

With the 1 January 1991 change in the regulations pertaining to the international transportation of HAZMAT, it was necessary for DOD activities to obtain the performance testing for the packaging configurations for which they were responsible. The purpose of this assignment was to provide that performance testing and test documentation, as requested by the Communications-Electronics Command (CECOM), for packagings intended to be used for batteries. CECOM packed and provided the test packagings. In addition to batteries, testing of the packagings for a single hydrogen charger was also requested by CECOM. In addition, Tobyhanna Army Depot requested that the packaging of the hydrogen charger in quantities of 10 and 12 be tested. The depot provided the packagings and the actual canisters. Chapter 9 of the UN Recommendations on the Transport of Dangerous Goods, known as the Orange Book, served as the reference document prescribing which tests were to be performed for the packagings and/or the hazardous commodities. Testing procedures were prescribed by ASTM D 4919, in accordance with procedures outlined in appendix F of AMCPSCC project report AMC 13-88. Test results were documented using the designated report format that had been adopted for this specific testing program.

SUBJECT: DEPARTMENT OF DEFENSE STORAGE SPACE ANALYSIS--1990

PROJECT: TD 29-91

Jul 1991

ABSTRACT:

Storage space availability is a major concern to DOD. In particular, DOD is concerned as to whether ample storage space exists to meet current and projected demands. The potential impact on storage space availability caused by materiel released into the supply system from installations scheduled for closure/realignment makes this concern even greater. Storage space shortfalls are reported by almost all of the installations included in this analysis. Although these installations also report vacant space, this space cannot sufficiently overcome the shortages. Space gained through cross service or interservice support agreements with other installations is unlikely to alleviate the problem. Rewarehousing, which increases the efficiency of space utilization, is not always cost effective. Management can use more aggressive actions to improve space utilization; however, substantial gains are doubtful. Additional storage space resulting from facility construction or lease appears to be the most probable solution to alleviating overcrowded conditions throughout DOD.

SUBJECT: ANALYSIS OF THE U.S. ARMY ARMAMENT, MUNITIONS, AND  
CHEMICAL COMMAND STORAGE SPACE

PROJECT: TD 34-91

Apr 1991

ABSTRACT:

This assignment was established to prepare an analysis of storage space at AMCCOM installations in order to determine the feasibility of changing AMCCOM space reporting requirements. A review of DD Forms 805 submitted by AMCCOM installations for the periods 1986-90 revealed that several installations should reduce the frequency of their reporting to once every 2 years.

SUBJECT: MISSOURI AVIATION CLASSIFICATION REPAIR ACTIVITY DEPOT  
MODERNIZATION

PROJECT: TD 35-91

Apr 1991

ABSTRACT:

This assignment was established at the request of HQ MACE. It provides a storage master plan for the mobilization mission of the Missouri AVCRAD. This report includes a storage plan, operations layout, personnel requirements, bill of materials/budgetary cost estimate, and sources of supply for equipment. A preservation and packaging guide concerning the mobilization workload has been furnished separately.

SUBJECT: UNITED NATIONS RECOMMENDED PERFORMANCE TESTING OF  
HAZARDOUS MATERIALS PACKAGINGS FOR THE DEFENSE LOGISTICS  
AGENCY - ADDITIONAL COMMON USE PACKAGINGS

PROJECT: TE 36-91

Sep 1991

ABSTRACT:

With the 1 January 1991 change in the regulations pertaining to the international transportation of HAZMAT, it was necessary for DOD activities to obtain the performance testing for the packaging configurations for which they were responsible. The purpose of this assignment was to provide that performance testing and test documentation, as requested by the DLA Central Manager for Hazardous Materials. The configurations included single as well as combination packagings. This project, the third in a series of projects covering the testing requested by DLA, included a variety of boxes, drums, and vendor packagings. Chapter 9 of the UN Recommendations on the Transport of Dangerous Goods, known as the Orange Book, served as the reference document prescribing which tests were to be performed for the packagings and/or the hazardous commodities. Testing procedures were prescribed by ASTM D 4919, in accordance with procedures outlined in appendix F of AMCPSCC project report AMC 13-88. Test results were documented using the designated report format that had been adopted for this specific testing program.

SUBJECT: OPERATIONAL SUPPORT FOR WORKLOAD FORECASTING

PROJECT: TD 37-91

Sep 1991

ABSTRACT:

The purpose of this assignment was to provide operational support to DESCOM and the Systems Integrated Management Activity (SIMA) for the implementation of supply support function workload forecasting methodologies. The methodologies have been programmed into the Decision Support System at SIMA.

SUBJECT: ARMY COMMODITY SPECIFICATION USAGE FOR THE JOINT  
PACKAGING COORDINATING GROUP

PROJECT: TP 38-91

May 1991

ABSTRACT:

This assignment produced a listing of all Army-used commodity specifications, broken down by Army Master Data File (AMDF) originator and quantity, in response to a JPCG tasking.

SUBJECT: REVIEW OF WEIGHT AND CUBE DATA

PROJECT: TP 44-91

Jul 1991

ABSTRACT:

This assignment was established by AMCPSCC to assess the integrity of packaging weight and cube data currently contained in the Army Master Data File Retrieval Microform System (ARMS) packaging segment of the AMDF. A survey of the actual weight and cube of various types of items stored at LEAD, as compared to that contained in the ARMS packaging segment of the AMDF, revealed that significant variances exist.



SUBJECT: TESTING OF CLIP-LOK<sup>TM</sup> SYSTEMS' DEMOUNTABLE PLYWOOD  
CONTAINERS

PROJECT: TE-LS-50-91

Jul 1991

ABSTRACT:

At the request of Clip-Lok<sup>TM</sup> Simpaki, London, Ontario, Canada, five demountable plywood containers were sent to AMCPSCC for testing. The top, bottom, sides, and ends of each container were held together with the Clip-Lok<sup>TM</sup> fastening system. Of the five containers, three were tested for shipment of general supplies (spare parts) and two were tested for the shipment of liquids. The two containers tested for the shipment of liquids each contained a special disposable plastic bag to contain the liquid. The tests were designed to determine if the containers (held together with the Clip-Lok<sup>TM</sup> system) can be used as shipping containers in the Army supply system. Except for the plastic disposable bags, the test results demonstrated that the containers (i.e., the boxes themselves) will survive the handling hazards expected in military distribution as simulated in the laboratory by a sequence of rough handling tests.

SUBJECT: WALTER REED ARMY MEDICAL CENTER STORAGE SPACE ASSISTANCE

PROJECT: TD 52-91

Jun 1991

ABSTRACT:

The purpose of this assignment was to provide storage space management reporting assistance to the Walter Reed Army Medical Center (WRAMC). This has been accomplished through research of previous storage space management reports and an on-site visit to the installation which reviewed and updated reporting practices with WRAMC personnel.

SUBJECT: UNITED NATIONS RECOMMENDED PERFORMANCE TESTING OF  
HAZARDOUS MATERIALS PACKAGINGS FOR THE U.S. NAVAL AIR  
STATION KEFLAVIK, ICELAND

PROJECT: TE 54-91

Jul 1991

ABSTRACT:

With the 1 January 1991 change in the regulations pertaining to the international transportation of HAZMAT, it was necessary for DOD activities to obtain the performance testing for the packaging configurations for which they were responsible. The purpose of this assignment was to provide that performance testing and test documentation, as requested by the public works department at the Naval Air Station Keflavik, Iceland. The packagings consisted of an 85-gallon salvage drum, with either powdered solids or a 55-gallon drum as the inner contents. Chapter 9 of the UN Recommendations on the Transport of Dangerous Goods, known as the Orange Book, served as the reference document prescribing which tests were to be performed for the packagings and/or the hazardous commodities. Testing procedures were prescribed by ASTM D 4919, in accordance with procedures outlined in appendix F of AMCPSCC project report AMC 13-88. Test results were documented using the designated report format that had been adopted for this specific testing program.

SUBJECT: UNITED NATIONS RECOMMENDED PERFORMANCE TESTING OF  
HAZARDOUS MATERIALS PACKAGINGS FOR THE U.S. ARMY  
CHEMICAL RESEARCH, DEVELOPMENT, AND ENGINEERING CENTER -  
GRENADE CONTAINERS AND A DEVELOPMENTAL JERRICAN

PROJECT: TE 55-91

Sep 1991

ABSTRACT:

With the 1 January 1991 change in the regulations pertaining to the international transportation of HAZMAT, it was necessary for DOD activities to obtain the performance testing for the packaging configurations for which they were responsible. The purpose of this assignment was to provide that performance testing and test documentation, as requested by CRDEC, for wood boxes containing grenades manufactured by the Pine Bluff Arsenal, and a plastic jerrican being developed by CRDEC for decontaminating agent DS2. Chapter 9 of the UN Recommendations on the Transport of Dangerous Goods, known as the Orange Book, served as the reference document prescribing which tests were to be performed for the packagings and/or the hazardous commodities. Testing procedures were prescribed by ASTM D 4919, in accordance with procedures outlined in appendix F of AMCPSCC project report AMC 13-88. Test results were documented using the designated report format that had been adopted for this specific testing program.

SUBJECT: STORAGE SPACE REQUIREMENTS - UNITED STATES ARMY  
PUBLICATIONS DISTRIBUTION CENTERS

PROJECT: TD 59-91

Aug 1991

ABSTRACT:

This assignment was established at the request of USAISC. It provides a macro determination for USAPDC's consolidated storage and process requirements under the USAISC staff study. The purpose of this request was to support USAISC's cost/benefit (C/B) analysis for the potential consolidation of USAPDCs. The plan provided for the C/B analysis to determine whether to consolidate existing distribution centers and, if consolidated, what center is most appropriate (e.g., from the Baltimore distribution center to the St. Louis distribution center or vice versa). The evaluation by this Center concluded that consolidation was technically feasible and that either USAPDC would require additional storage capacity and MHE up-grades to handle a consolidated mission.

SUBJECT: FORT BELVOIR, VA INDUSTRIAL PARK DESIGN ASSISTANCE

PROJECT: TD 65-91

Sep 1991

ABSTRACT:

This assignment was established at the request of the Commanding General, U.S. Army Fort Belvoir. Assistance was provided in regards to a construction project titled Industrial Park, which was developed to relocate four activities from Cameron Station to Fort Belvoir. This report includes storage/operations layouts to be utilized in designing the new facilities and relocating the activities.

SUBJECT: WALTER REED ARMY MEDICAL CENTER STORAGE PLANNING  
ASSISTANCE

PROJECT: TD 66-91

Aug 1991

ABSTRACT:

The purpose of this assignment was to develop storage layouts and planographs for WRAMC. This has been accomplished through on-site visits to the installation in order to review the facilities and through the use of CADKEY software at AMCPSCC.